

QY	486	GGGACAGATGAGGTCACATCAGACAGAAATTAATCTGCTGCCAATCAACTAGCTGCTGCAC	545	305	GGTCCGAGCGGAGACATCAGACGACGACTCGGCGGAGGAGATTAAGGCTTTTGGAG	344	
Db	656	GAGCAAGTGGGAAACCAATCAGAGGGTGCATATGATGAGAAACACAGGATACGCTGACG	715	547	GAGTAAACCAAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	606	
QY	546	CAGAGGACTGTCTTACATCTGCTGG	572	365	GAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	414	
Db	716	TGGCCACCGCTTTCACATCTTCTTGG	742	607	CTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	646	
RESULT 12				QY	425	GAATTTGGGAGAACTTAAAGTGTGATGAAACAGAAAGTGGGAGTGTGATGAAAGAA	464
AF017734				Db	667	GAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	716
LOCUS				QY	495	ACGGCCACATCTATACGACATCAGACAGAA	514
DEFINITION				Db	727	AGGGCCAAAGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	756
ACCESSION				RESULT 13			
VERSION				AF017735			
KEYWORDS				LOCUS			
SOURCE				DEFINITION			
ORGANISM				complete cds.			
REFERENCE				ACCESSION			
AUTHORS				AF017735			
TITLE				VERSION			
JOURNAL				AF017735.1			
MEDLINE				KEYWORDS			
PubMed				SOURCE			
REFERENCE				ORGANISM			
AUTHORS				Mus musculus			
TITLE				Mus musculus			
JOURNAL				REFERENCE			
AUTHORS				1 (bases 1 to 1408)			
TITLE				Yan, Y. T., Yang, J., Su, J., Wang, H., Chen, H., and Shen, M. M.			
JOURNAL				Abate-Shen, C. and Shen, M. M.			
MEDLINE				Epx, a novel paired like homebox gene expressed in the chorion and placenta			
PubMed				2 (bases 1 to 1408)			
REFERENCE				Yan, Y. T., Yang, J., Su, J., Wang, H., Chen, H., and Shen, M. M.			
AUTHORS				Abate-Shen, C. and Shen, M. M.			
TITLE				Epx, a novel paired like homebox gene expressed in the chorion and placenta			
JOURNAL				Unpublished			
AUTHORS				3 (bases 1 to 1408)			
TITLE				Yan, Y. T., Yang, J., Su, J., Wang, H., Chen, H., and Shen, M. M.			
JOURNAL				Direct Submission			
MEDLINE				Submitted (06-AUG-1997)			
PubMed				School, 679 Boes Lane, Piscataway, NJ 08854, USA			
REFERENCE				Location/Qualifiers			
AUTHORS				1. 11408			
TITLE				Organism=Mus musculus			
JOURNAL				Strain=129/Sv			
MEDLINE				AB_xref=taxon:10090			
PubMed				1. 11408			
REFERENCE				Gene=Epx			
AUTHORS				1. 11425			
TITLE				Gene=Epx			
JOURNAL				1. 1164			
MEDLINE				Gene=Epx			
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REFERENCE				Gene=Epx			
AUTHORS				Gene=Epx			
TITLE				Gene=Epx			
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TITLE				Gene=Epx			
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JOURNAL				Gene=Epx			
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PubMed				Gene=Epx			
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JOURNAL				Gene=Epx			
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TITLE				Gene=Epx			
JOURNAL				Gene=Epx			
MEDLINE				Gene=Epx			
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JOURNAL				Gene=Epx			
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AUTHORS				Gene=Epx			
TITLE				Gene=Epx			
JOURNAL				Gene=Epx			
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JOURNAL				Gene=Epx			
MEDLINE				Gene=Epx			
PubMed				Gene=Epx			
REFERENCE				Gene=Epx			
AUTHORS				Gene=Epx			



CC measuring and displaying gene expression in samples derived from human
 CC fetal liver. The present sequence is a single exon nucleic acid
 CC probe of the invention.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at http://wipo.int/pat/pubs/seqs/pat_seqs.html.

XX

SQ Sequence 459 BP; 81 A; 140 C; 131 G; 107 T; 0 other;

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Query Match      10.6%; Score 51.4; DB 22; Length 459;
Best Local Similarity 57.6%; Pred. No. 5,86-06;
Matches 132; Conservative 0; Mismatches 91; Indels 6; Gaps 1;

QY 189 AGGAGAAAGCGATGAAGGCGAATGCGTGGTATGATCGGCGAGGCGGCGGAGAAAGCCAGG 248
DB      ||||| | | ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 376 ATGCGGAGCGTGTGCGACCCCATGATCCACGAGAACTCAGAAAGCGCGGCGTGGCCACGAG 317
DB      ||||| | | ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 349 ATTTTGTATATTTTATGTTTTTTTGTGATGATGATGATGATGATGATGATGATGATGATGAT 408
DB      ||||| ||||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 316 ATGCGGAGCGTGTGCGACCCCATGATCCACGAGAACTCAGAAAGCGCGGCGTGGCCACGAG 293
DB      ||||| ||||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 309 CCGACGCCGAGAACATGCGAGCGAGCACTCGCGGCGAGCGAGCTGACCGCTGTTGACGCGG 368
DB      ||||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 262 CCGAAGCCCAAGATAGAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 203
DB      ||||| ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 369 AGGAGTGGAAAGTGTGTTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 417
DB      ||||| || | | ||||| || | ||||| || | ||||| || | ||||| || | ||||| ||
QY 202 AGGAGTAGACAGGCAATTTTTCACCTTCTCAATATCCGAGACATGTTGCG 154
DB      ||||| || | | ||||| || | ||||| || | ||||| || | ||||| || | ||||| ||

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Search completed: April 28, 2003, 19:24:13
 Job time : 251 secs

Result No.	Score	Query Match	Length	DB ID	Description
1	577	100.0	773	10	Sequence 36, Apr
2	577	100.0	713	10	Sequence 36, Apr
3	574.6	99.6	897	10	Sequence 36, Apr
4	409	70.9	10968	10	Sequence 3, April
5	71.8	12.4	1427	12	Sequence 3, April
6	65.2	11.3	806	9	Sequence 27, Apr
7	65.2	11.3	1541	9	Sequence 15, April
8	61.4	10.6	459	10	Sequence 43, April
9	57.1	9.9	7354	9	Sequence 18914, A
10	57.4	9.9	1895	9	Sequence 10, April
11	56.2	9.7	471	10	Sequence 36, Apr
12	56.2	9.7	667	10	Sequence 36, Apr
13	55.8	9.7	334	10	Sequence 36, Apr
14	49.4	8.6	250	10	Sequence 27456, A
15	47.8	8.3	464	9	Sequence 27456, A
16	46.6	8.1	1713	10	Sequence 27190, A
17	46.1	8.1	2000	10	Sequence 320, Apr
18	45.6	8.1	2066	10	Sequence 153, Apr
19	45.5	8.1	2056	10	Sequence 43, Apr

1. *Environ. Biol. Fish.* 1997, 49: 171-180.

Result No.	Score	Query Match	Length	DB ID	Description
1	577	100.0	773	10	Sequence 36, Apr
2	577	100.0	713	10	Sequence 36, Apr
3	574.6	99.6	897	10	Sequence 36, Apr
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6	65.2	11.3	806	9	Sequence 27, Apr
7	65.2	11.3	1541	9	Sequence 15, April
8	61.4	10.6	459	10	Sequence 43, April
9	57.1	9.9	7354	9	Sequence 18914, A
10	57.4	9.9	1895	9	Sequence 10, April
11	56.2	9.7	471	10	Sequence 36, Apr
12	56.2	9.7	667	10	Sequence 36, Apr
13	55.8	9.7	334	10	Sequence 36, Apr
14	49.4	8.6	250	10	Sequence 27456, A
15	47.8	8.3	464	9	Sequence 27456, A
16	46.6	8.1	1713	10	Sequence 27190, A
17	46.1	8.1	2000	10	Sequence 320, Apr
18	45.6	8.1	2066	10	Sequence 153, Apr
19	45.5	8.1	2056	10	Sequence 43, Apr

RESULT 5

AAU16615

ID AAU16615 standard; Protein: 194 AA.

AAU16615:

XX 07-NOV-2001 (first entry)

XX Human novel secreted protein, Seq ID 1568.

XX Human; immunosuppressive; antiarthritis; anti-inflammatory;

XX cytosolic; cardiac; systemic; secreted; anti-inflammatory;

XX nonreproductive; anti-inflammatory; the like; leukocyte; inflammation;

XX vulnary; secreted protein; rheumatoid arthritis;

XX hyperproliferative disorder; cardiovascular disorder; cardiac attack;

XX nervous system disorder; Alzheimer's disease; infection; cancer; leukemia;

XX skin aging; feed additive; preservative; anti-proliferative;

XX Homo sapiens.

XX W0200155422-A2.

XX 02-AUG-2001.

XX 17-JAN-2001; 2001WO-US01341.

XX 31-JAN-2000; 2000US-0170055.

XX 04-FEB-2000; 2000US-0180639.

XX 24-FEB-2000; 2000US-0194664.

XX 02-MAR-2000; 2000US-0186360.

XX 16-MAR-2000; 2000US-0190874.

XX 17-MAR-2000; 2000US-0190076.

XX 18-APR-2000; 2000US-0198193.

XX 19-MAY-2000; 2000US-0205516.

XX 07-JUN-2000; 2000US-0209467.

XX 28-JUN-2000; 2000US-0214886.

XX 30-JUN-2000; 2000US-0215135.

XX 07-JUL-2000; 2000US-0216647.

XX 07-JUL-2000; 2000US-0216890.

XX 11-JUL-2000; 2000US-0217487.

XX 11-JUL-2000; 2000US-0217496.

XX 14-JUL-2000; 2000US-0219290.

XX 26-JUL-2000; 2000US-0225703.

XX 26-JUL-2000; 2000US-0220964.

XX 14-AUG-2000; 2000US-0224519.

XX 14-AUG-2000; 2000US-0224519.

XX 14-AUG-2000; 2000US-0225214.

XX 14-AUG-2000; 2000US-0225261.

XX 14-AUG-2000; 2000US-0225267.

XX 14-AUG-2000; 2000US-0225267.

XX 14-AUG-2000; 2000US-0225270.

XX 14-AUG-2000; 2000US-0225279.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

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XX 22-AUG-2000; 2000US-0225681.

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XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

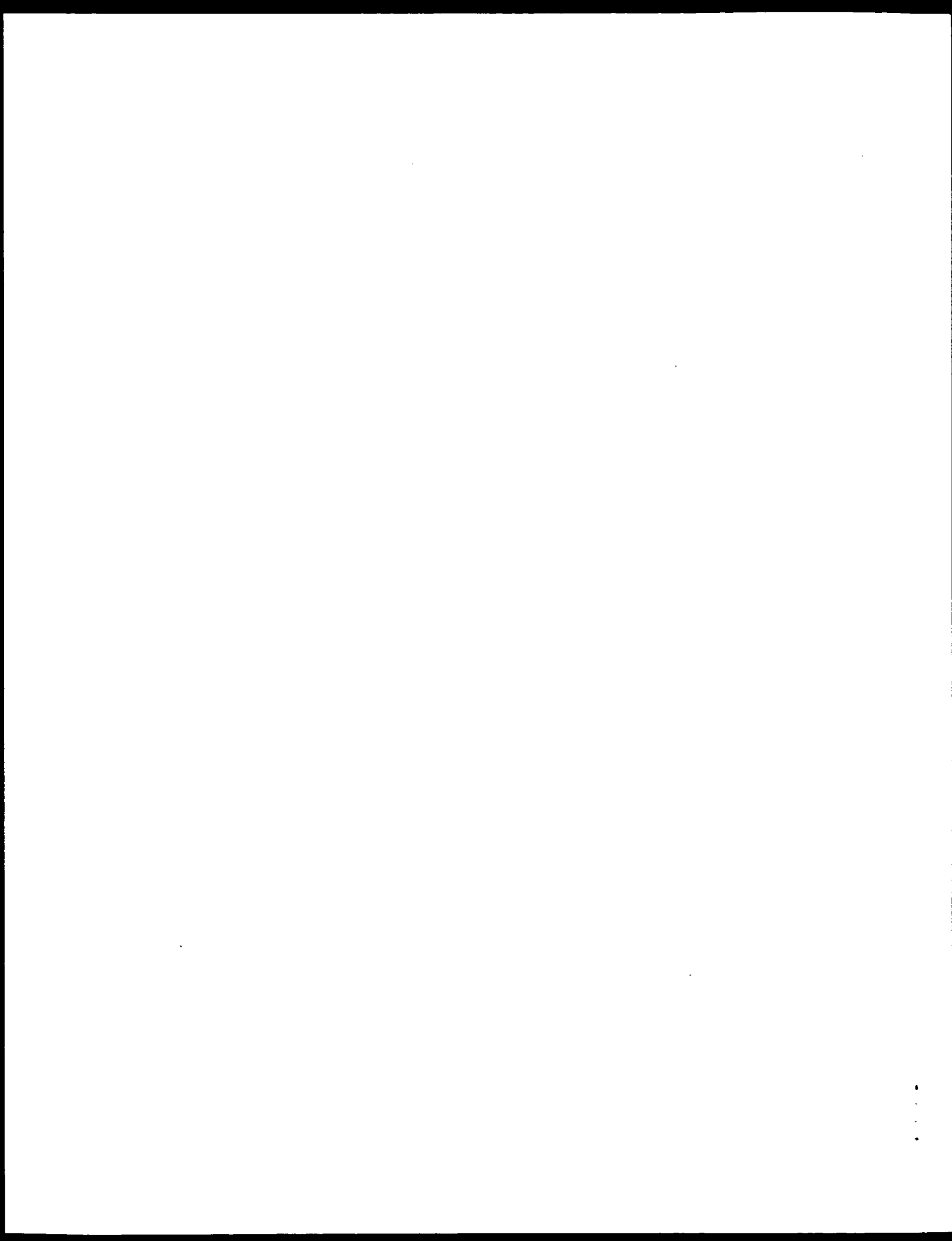
XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.

XX 22-AUG-2000; 2000US-0225681.



[illegible]


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?      Topology : linear
?      Multiple type: protein
US-09-105_470_4

Query Match
Best local Similarity   16.0% Score 158 ; DB %; Length 244
Matches    48 ; Conservative 18 ; Mismatches    44 ; Indels     4 ; Gaps       6

QY    58 NMNRRGEM-----PRK--          GGNGETRFQQPTFFPFAVAAEAPQ 97
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    57 IADARGGHTSSRGCTHPEFEPEEGSRAGANGLSLGRRAADEVALLAEITPE 96
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    98 -----PEN-----MQDTP RIKFKILLQVEELSEVFRTQTIVNTRE 145
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    67 PQGVSTFSPATLGTGIDTDFRSGASRPVVTFEFESQDTLSAFERAH 156
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    136 LAKNKLLTVQRWFWFRFPACPPHPHEMIANEL 171
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    157 LAKNKLLTVQRWFENRKRIKKRQ---LSEL 188
DB        ||| |         ||||              ||| ||| ||| ||| |

RESULT 10
US-10-012-R96-R42
? Sequence #12, Application USJ10012#96
? Publication No. US2002018425(A)
? GENERAL INFORMATION:
? APPLICANT: Xu, Jianqun
? APPLICANTS: Ellison, David C.
? APPLICANT: Mitchell, Jennifer D.
? APPLICANTS: Hatcher, Susan E.
? APPLICANTS: Jiana, Yuriko
? APPLICANTS: Kados, Michael B.
? APPLICANTS: Kotter, Marc W.
? APPLICANTS: Stolk, John A.
? APPLICANTS: Day, Craig R.
? APPLICANTS: Vedrick, Thomas S.
? APPLICANTS: Carter, Bartek
? APPLICANTS: Li, Samuel X.
? APPLICANTS: Ward, Alton
? APPLICANTS: Skelky, Yasir A.W.
? APPLICANTS: Hopfer, William T.
? APPLICANTS: Henderson, Robert A.
? APPLICANTS: Hurai, John
? APPLICANTS: McNeill, Patricia D.
? APPLICANTS: Boughton, Raymond B.
? APPLICANTS: Vinals de Bassols, Carolina
? APPLICANTS: Foy, Teresa
? APPLICANTS: Faner, Gary R.
? APPLICANTS: Wanfanie, Yoshihiro
? APPLICANTS: Weather, Madeleine Joy
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPEUTIC
? USE OF INVENTIONS: DIAGNOSIS OF PROSTATE CANCER
? FILE NUMBER: 219121-5797
? CLASS: G11C 61/00 H01B 35/00, G12, H96
? CURRENT PILING DATE: 2001 12 10
? NUMBER OF SEQ ID NOS: 1011
? SOFTWARE: FASTSEQ for Windows Version 3.0
? SEQ ID NO R42
? LENGTH: 241
? TYPE: PRt
? ORGANISM: Homo sapiens
US-10-012-R96-R42

Query Match
Best local Similarity   28.9% Score 158 ; DB %; Length 241
Matches    63 ; Conservative 22 ; Mismatches    64 ; Indels     4 ; Gaps       6

QY    45 CTGAAGAAGCAAGAACAAAAGAACAAAGTTTGCGTCATTCCGCCTTTGCTGG 73
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    27 PTNRKRFLTLQDLIRAGAQGSTTSQGRLTHFTPFEPFEEPKR 79
DB        ||| |         ||||              ||| ||| ||| ||| |
QY    74 NORREQCPDPPTFFAVAAEQPV----PEN MQDTP RIKFIL 111
DB        ||| |         ||||              ||| ||| ||| ||| |

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QY 61 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 120
DB 61 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 120
QY 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
DB 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
QY 181 IVVD 184
DB 181 IVVD 184
RESULT 2
PAT US01-01341-1155
Sequence 1155, Application US/200101341
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc., et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ249CT
CURRENT APPLICATION NUMBER: US/01-01341
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PAM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 1155
LENGTH: 194
TYPE: PRT
ORGANISM: Homo sapiens
PAT US01-01341-1155

Query Match 100.0%; Score 986; DB 1; Length 194;
Best Local Similarity 100.0%; Pred. No. 10-77;
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 60
DB 11 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 70
QY 61 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 120
DB 71 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 140
QY 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
DB 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
QY 181 IVVD 184
DB 181 IVVD 184

RESULT 3
US 09 764-864 1155
Sequence 1155, Application US/00764864
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ24
CURRENT APPLICATION NUMBER: US/00-01341
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PAM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 1155
LENGTH: 194
TYPE: PRT
ORGANISM: Homo sapiens
US 09 764-864 1155

Query Match 100.0%; Score 986; DB 21; Length 194;
Best Local Similarity 100.0%; Pred. No. 10-77;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 60
DB 11 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 70
QY 61 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 120
DB 71 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 140
QY 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
DB 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
QY 181 IVVD 184
DB 181 IVVD 184
RESULT 4
US 10-080 129 1155
Sequence 1155, Application US/10080129
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ24CT
CURRENT APPLICATION NUMBER: US/00-01341
CURRENT FILING DATE: 2001-01-17
Prior application data removed - See File Wrapper or PAM
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 1155
LENGTH: 194
TYPE: PRT
ORGANISM: Homo sapiens
US 10-080 129 1155

Query Match 100.0%; Score 986; DB 24; Length 194;
Best Local Similarity 100.0%; Pred. No. 10-77;
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 60
DB 11 MARSLVHTVYVYLSVYQVLESPFQIAAASSAKHGVGGAPGLMNMNIEGVNHNEM 70
QY 61 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 120
DB 71 NRKGMIPFEGGGNGDFRQQPPPPPPPAQAAMGQPPENMQPRTKRTFTLLQVEELSS 140
QY 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
DB 121 VERHTQYDQVPTTRKELAEINLVTEKRVVWFKNKRKAKTRKQRELMELANLEKALHFAH 140
QY 181 IVVD 184
DB 181 IVVD 184

RESULT 5
US 09 488-725A 2780
Sequence 278, Application US/09488725A
GENERAL INFORMATION:
APPLICANT: Hysco Inc
TITLE OF INVENTION: Novel Nucleic Acid and Polypeptides
FILE REFERENCE: 784FLECT
CURRENT APPLICATION NUMBER: US/09/488,725A
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: US/09/488,725
PRIOR FILING DATE: 2000-01-24
PRIOR APPLICATION NUMBER: US09/552,417
PRIOR FILING DATE: 2000-04-25
PRIOR APPLICATION NUMBER: US09/550,042
PRIOR FILING DATE: 2000-06-20

1 TITLE OF INVENTION: MOLECULES FOR DISEASE DETECTION AND TREATMENT

2 FILE REFERENCE: PT-1231.PCT

3 CURRENT APPLICATION NUMBER: PCT/US02/00014

4 CURRENT FILING DATE: 2002-03-27

5 PRIOR APPLICATION NUMBER: 60,266,007

6 PRIOR FILING DATE: 2001-03-29

7 NUMBER OF SEQ ID NOS: 20

8 SOFTWARE: PERL Program

9 SEQ ID NO 446

10 LENGTH: 172

11 TYPE: PRT

12 ORGANISM: Homo sapiens

13 NAME/KEY: misc feature

14 OTHER INFORMATION: Insyle ID No: LG12345678.2.orf2:2001MAR30

15 PCT/US02-09944-446

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QY 65 GMTPHGGGNGEPHQQGQPPHPPHQAAMRCPQPPHNP... 100
101 GAVPPLGA--QOCSCVPTPGYEGGVSIVSPVHOMLHMVYGTLSRTELQQLINGLHGR 150
104 --SPTPTKFTTIGVPPFESVGGGGVGVVQVPPFAPNCAVPEKVVVWPKSPKPAAGCGRH 161
159 RPKQHTTFTFQGLALNGLTLEFVWTEGLAPENLSHAKANVAPKASAWW... 170
QY 162 QR 163
DB 219 RP 220
RESULT 12
PMX1_HUMAN
AC P54821: 060807; STANDARD; PRT: 245 AA.
DT 01-OCT-1996 (Rel. 34, Created)
DT 15-JUN-1999 (Rel. 38, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Paired mesoderm homeobox protein 1 (PMX1) (Paired related homeobox protein 1) (Homeobox protein PMX1).
GN PMX1 OR PMX1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID:9606;
RN [1]
RP SEQUENCE FROM N.A. (USF-94M PMX1-B).
RA Pearce A.;
RC Submitted (APR-1998) to the EMBL/Genbank/Tran databases
RN [2]
RP SPOUNCE OF 19-197 FROM N.A. (USF-94M PMX1-A).
RA Gruenberg D.A., Nafaeen S., Alexandro G., Eisman M.Y.;
RT Binding activity of serum response factor *;
RT "Human and Drosophila homeodomain proteins that enhance the DNA-binding activity of serum response factor *";
RL Sentence 257:1089-1095(1992).
CC -!- FUNCTION: ACTS AS A TRANSCRIPTIONAL REGULATOR OF MUSCLE CREATINE KINASE (CK) AND SO HAS A ROLE IN THE ESTABLISHMENT OF DIVERSE MESODERMAL MUSCLE TYPES. THE PROTEIN BINDS TO AN A/T-RICH ELEMENT IN THE MUSCLE CREATINE ENHANCER (BY SIMILARITY).
CC -!- SUBCELLULAR LOCATION: Nuclear.
CC -!- ALTERNATIVE PRODUCTS: 2 ISOFORMS: PMX1-A AND PMX1-B (SHOWN HERE). ARE PROMOTED BY ALTERNATIVE SPLICING.
CC -!- SIMILARITY: BELONGS TO THE PAIRED HOMEBOX FAMILY.
CC -!- SIMILARITY: CONTAINS 1 HOMEBOX DOMAIN.
CC -!- SIMILARITY: CONTAINS 1 OAR DOMAIN.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL/Genbank/Tran the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed, usage by and for commercial entities requires a license agreement (<http://www.ebi.ac.uk>) or send an email to license@ebi.ac.uk.
DR EMBL: Z97200; CARI0074.1;
DR EMBL: Z97200; CARI0074.1;
DR EMBL: M95929; AAA60085.1;
DR HSSP: P06601; 1F3L;
DR GeneW: HGNc:9142; PMX1
DR MIM: 167420;
DR InterPro: IPR004654; Homebox_OAR.
DR InterPro: IPR001356; Homeobox.
DR Pfam: PF00046; homeobox; 1.
DR ProDom: PD000010; Homeobox; 1.
DR SMART: SM00389; HOX; 1.
DR PROSITE: PS00027; HOMEBOX_1; 1.
DR PROSITE: PS50071; HOMEBOX_2; 1.
DR PROSITE: PS50803; OAR; 1.
KW Homeobox; DNA-binding; Developmental protein; Nuclear protein;

KW Alternative splicing; phosphorylation;
FT DNA_BIND 94 153 BiopageX;
FT DOMAIN 222 235 OAR;
FT MOD_RES 197 197 PHOSPHORYLATION (POTENTIAL).
FT VAR_SEQ 200 245 SAMATYSAPANNASQATINMANSIANIETKAKYSLSQNG
VPTVN - KSSLSLQVCLHEILNCT (IN 159-168M PMX1-A).
FT ALIAS 1 245 AA, 272-296 Mb, 224371992-19, chr6:64;
Query Match 18.7%; Score 184.5; DB 1; Length 245;
Best local Similarity 29.0%; Prod. No. 7.7e 07;
Matches 49; Conservative 27; Mismatches 54; Indels 49; Gaps 6;
QY 41 SSARGHVCGAPGLMGNMPEG---GVNENMNRGGMIP---P35.71
DB 2 TSSGVHVFQPAIGPFGPGRHDTGCKKNPSVSHLDFEAGDMVAAGALNRVHEAG 61
QY 72 -----CGNCPDQPPQPPTEPAQAAMRCPQPPHNPFTFTLVVELESV 121
DB 13 131 131 131 131 131 131 131 131 131 131 131 131 131 131
QY 122 PRTQVPEVPTPESELAENLGVTEHVVVWPKSPKPAAGCGRHPELMLANE 170
DB 1 1111 1 111 1 111 1 111 1 111 1 111 1 111 1 111
DB 113 PETHYTAFAVREDLARKVNLTKRVQVWFQNRKAKRNER AMANK 110
RESULT 13
PMX1_MOUSE
AC P43271: Q02810; STANDARD; PRT: 245 AA.
DT 01-FEB-1995 (Rel. 31, Created)
DT 15-JUN-1999 (Rel. 38, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Paired mesoderm homeobox protein 1 (PMX1) (Paired related homeobox protein 1) (Homeobox protein PMX1).
GN PMX1 OR PMX1 OR PMX.
OS Mus musculus (Mouse), and
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognatha; Muridae; Murinae; Mus.
OX NCBI_TaxID:10090, 10116;
RN [1]
RP SEQUENCE FROM N.A. (PMX1-A ISOFORM).
RC SPECIES Mouse;
RA MEDLINE 94084424; PubMed 7910581;
RA Cserjesi P., Lilly R., Wyssom L., Wang Y., Sassoon D.A., Olson E.N.;
DE "Mdx: a mesodermally restricted homeodomain protein that binds an essential site in the muscle creatine kinase enhancer *";
DE Development 115:1087-1101(1992).
RN [2]
RP SEQUENCE FROM N.A. (PMX1-A ISOFORM).
RC SPECIES Mouse;
RA MEDLINE 94245205; PubMed 7910581;
RA Korn M.J., Arqao E.A., Birkenmeier E.H., Rowe L.B., Potter J.S.;
DE "Genomic organization and chromosomal localization of the murine homeobox gene, mdx *";
DE Genomics 19:334-340(1994).
RN [3]
RP SEQUENCE FROM N.A. (PMX1-A ISOFORM).
RC SPECIES Mouse;
RA MEDLINE 94245205; PubMed 7910581;
RA Korn M.J., Arqao E.A., Birkenmeier E.H., Rowe L.B., Potter J.S.;
DE "Genomic organization and chromosomal localization of the murine homeobox gene, mdx *";
DE Genomics 19:334-340(1994).
RN [4]
RP SEQUENCE FROM N.A. (PMX1-A ISOFORM).
RC SPECIES Rat;
RA MEDLINE-96340959; PubMed-8749718;
RA He Y., Flanagan J., Brennan D.P., Zhou H., Ng K.W., Eisman J.A., Morrison N.A.;
DE "Hbx: a homeobox gene expressed in osteoblastic cells *";
DE J. Cell. Biochem. 59:486-497(1995).

QY 143 TEDKVVWFKNKBPGR9HOR 163
DB 254 TEARVVWFOKRRANKRKR 274

Search completed. April 29, 2003, 21:14:05
Job time : 24 secs

GenCore version 5.1.4.LP5.4522
Copyright (c) 1993 - 2003 Comogen Ltd.

OM protein - protein search, using sw model

Run on: April 27, 2003, 19:37:10, Search time 69 seconds

(without alignments)
549,459 Million cell updates/sec

Title: US-09-867-753-2

Perfect score: 986

Sequence: 1 MARSLVHPTVFYVTSVYGVK.....LMANLEAAREDECVYVVD 184

Scoring table: BLOSUM62

Gap 10 0, Gapext 0 5

Searched: 671580 seqs, 26647115 residues

Total number of hits satisfying chosen parameters: 671590

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTSEMBL_21:*

1: sp_archaea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_mhc:*

8: sp_orquanelle:*

9: sp_phage:*

10: sp_plant:*

11: sp_rodent:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_virus:*

16: sp_bacterioph:*

17: sp_archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	789	80.0	148	Q95030	Q95030 Homo sapiens
2	260.5	21.4	137	Q9Y4W1	Q9Y4W1 Homo sapiens
3	216	21.9	288	Q9BRU0	Q9BRU0 Homo sapiens
4	216	21.9	288	Q9RCY4	Q9RCY4 Homo sapiens
5	212.5	21.6	227	Q9E0M5	Q9E0M5 Mus musculus
6	212	21.5	286	Q8T615	Q8T615 Branchiostoma
7	197	20.0	382	Q94843	Q94843 Mus musculus
8	197	20.0	387	Q92203	Q92203 Mus musculus
9	196	19.9	314	Q54817	Q54817 Mus musculus
10	191.5	19.4	248	Q51252	Q51252 Branchiostoma
11	191.5	19.4	562	Q9FAS3	Q9FAS3 Homo sapiens
12	190	19.3	640	Q8T0M4	Q8T0M4 Drosophila
13	188.5	19.1	371	Q61182	Q61182 Homo sapiens
14	188	19.1	227	Q70238	Q70238 Mus musculus
15	187	19.0	329	Q9W7M	Q9W7M Homo sapiens
16	186	18.9	563	Q9VIX6	Q9VIX6 Drosophila

17 183 18.6 408 5 Q9VPP1
18 192.5 18.5 355 12 P9257
19 181 18.4 365 6 Q9GMA3
20 180 18.3 240 11 Q8R413
21 180 18.3 299 6 Q8SQ03
22 180 18.3 299 11 Q9WTO9
23 180 18.3 299 11 Q9JLH8
24 179.5 18.2 362 5 Q23436
25 179 18.2 401 5 Q46170
26 179 18.2 391 5 Q81E21
27 179 18.2 826 5 Q9B130
28 177.5 18.0 276 13 Q9B1G7
29 177 18.0 387 13 Q93582
30 176.5 17.9 493 11 Q4E516
31 176 17.8 214 13 Q8UVD3
32 176 17.8 370 5 Q25411
33 176 17.8 476 11 Q9XV16
34 176 17.8 479 13 Q13081
35 176 17.8 612 5 Q24477
36 176 17.8 612 5 Q26441
37 176 17.8 835 4 Q96H85
38 175.5 17.8 228 5 Q25436
39 175.5 17.8 371 5 Q46169
40 175 17.7 484 11 Q9C2K7
41 174.5 17.7 350 13 Q9IAL2
42 174 17.6 282 13 Q73678
43 174 17.6 295 5 Q96924
44 174 17.6 464 5 Q9NDA9
45 173 17.5 210 11 Q9QYR0

ALIGNMENTS

RESULT 1

Q95030 PRELIMINARY: PKT: 148 AA.
ID Q95030
AC Q95030:
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE WUGSC-HLGS421103.1 protein (Fragment).
GN WUGSC-HLGS421103.1.
OS Homo sapiens (Human).
OC Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
OC Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
OX NCBI_taxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Leonard S., Graves T., Coffman M.
ET The sequence of Homo sapiens PAK-epsilon C51-42113.7.
FL Submitted (JUN-1998) to the EMBL/GenBank/DBJ databases.
RL [2]
RP SEQUENCE FROM N.A.
RA Waterston R.

KL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL: AC005023; AAC78617.1;
DR HSP: P04501; IEFJL;
RF TrEMBL: TrEMBLrel. 10, HOMO.SAPIENS.
DR Pfam: PF00046; homeobox; 1.
DR SMART: SM00389; H0X; 1.
DR PROSITE: PS50671; HOMEBOX_2; 1.
FT NON_TER 148 148
SQ SEQUENCE 148 AA; 1-148 MW: 708140.14P/70825.0P/54;

Query Match
Best local similarity 100.0%, Field No. 636 63;
Matches 149, Conservative 0, Mismatches 0, Gaps 0.
1 MARSLVHPTVFYVTSVYGVK.....LMANLEAAREDECVYVVD 184
1 MARSLVHPTVFYVTSVYGVK.....LMANLEAAREDECVYVVD 184

El. Dev. Biol. 168:85-95(1997).

[illegible]

DT	01-NOV-1999 (TREMBOREL, 12, Created)
BT	01-NOV-1999 (TREMBOREL, 12, Last sequence update)
RT	01-OCT-2002 (TREMBOREL, 21, Last annotation update)
PT	Cathodelic protein.
GN	ORF OR OTF.
OR	See by database search (Go Fishish) ("bran dante").
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC	Cyprinidae; Danio;
OX	NB_L06787-7955;
RN	[...]
RD	SEQUENCE FROM N.A.
RA	Del Giacco L., Di Benedetto R., Dupa S., Diani S., Corbelli F.;
RI	"Isolation of the mRNA encoding orf (orthopedia) in the zebrafish,
RI	Danio rerio,"
RI	bioRxiv vol. 1, no. 1, 1999.
CC	1 - SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC	EMBL: AF071496; AAC020111.


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DR HSP: P06601; 1FJL.
DR ZFIN: ZDB-GENE-990708-7; otp.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR003654; Homeo_OAR.
DR InterPro: IPR000047; HTH_repressr.
DR Pfam: PF00046; homeobox; 1.
DR PRINTS: PR00024; HOMEBOX.
DR PRINTS: PR00031; HTHREPRESSR.
DR ProDom: PD000010; Homeobox; 1.
DR SMART: SM00389; HOX; 1.
DR PROSITE: PS00027; HOMEBOX_1; 1.
DR PROSITE: PS50071; HOMEBOX_2; 1.
KW DNA-binding; Homeobox; Nuclear protein.
SQ SEQUENCE 328 AA: 354RH MW: 70048048901103EC CR0564;

Query Match      19.04; Score 187; DR 13; Length 328;
Best Local Similarity 30.98; Pred. No. 7.8e-09;
Matches 56; Conservative 22; Mismatches 41; Indels 42; Gaps 7;

QY 2 AKSVVHTVPYTTAVVAVFSTFPAIQAAPSAFQVQ QCAFLCMGRMRPN 52
DB | ||| | | | | | | | | | | | | | | |
32 AELLVREALKC-----RLGQDS--CHPULTSATETVEGTTLLPGEELSN 77
QY 53 GYNHENGNNRNGCMIPSGGNGNGEPGQGGPPPPFACAAAFPPQPPNMPPTPTFTFL 112
DB | | ||| : ||| ||| : | | : | | | | | | |
78 GSN-ENGNG-----QNAVIGQPAQGG-----GNSGQIQQGNGNQQGGRKRTTP 121
QY 113 LQVELESVERHTAVPPVETPRPELAENLGVIEDVYVYVFNKRAQCPHORELMANER 172
DB | | ||| | | ||| | ||| | ||| | ||| | ||| | ||| | ||| |
122 AUNFEPSEFATYVGHFMPEFFIAIPIGITESSVQVWLNPPFAKWFPTK-----TINVEP 179
QY 173 A 173
DB |
179 A 179

```

Search completed: April 28, 2003, 03:35:05
 Job time : 74 secs

